

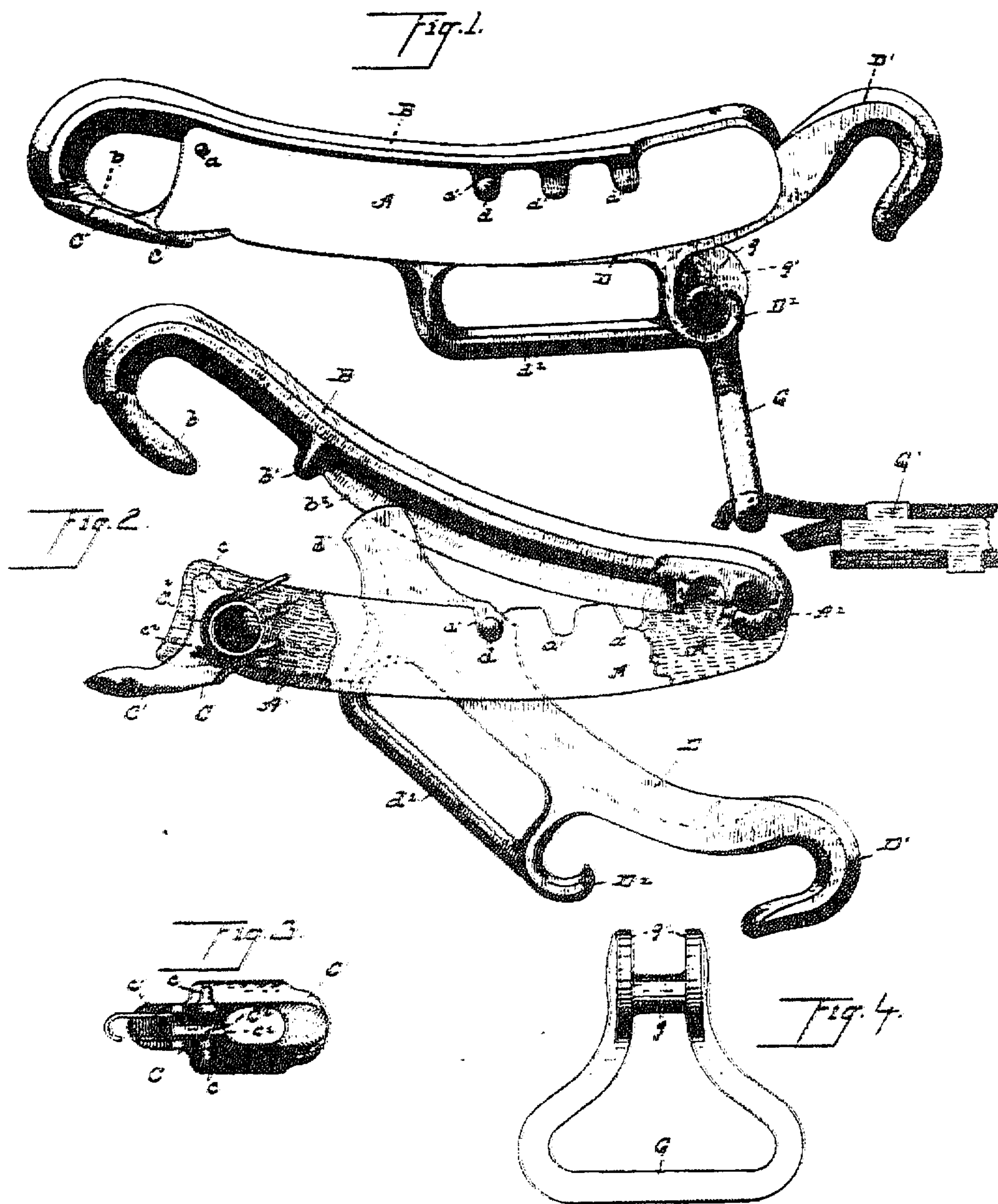
(No Model.)

D. G. MILLER.

HAME FASTENER.

No. 354,430.

Patented Dec. 14, 1886.



WITNESSES

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DAVID G. MILLER, OF CLEVELAND, OHIO.

HAME-FASTENER.

SPECIFICATION forming part of Letters Patent No. 354,430, dated December 14, 1886.

Application filed July 6, 1885. Serial No. 170,671. (No model.)

To all whom it may concern:

Be it known that I, DAVID G. MILLER, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful
5 Improvements in Hame-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

10 My invention relates to improvements in hame-fasteners; and it consists in certain features of construction and in combination of parts, hereinafter described, and pointed out in the claims.

15 In the accompanying drawings, Figure 1 is a side view, in elevation, of my improved hame-fastener in its closed position, a portion of the pole-strap eye being broken away to show the engaging hook. Fig. 2 is a side view, in elevation, showing the device opened, portions of
20 the front side of the casing being broken away to show the cross-bars and locking device. Fig. 3 is a plan view of the locking device. Fig. 4 is a side view, in elevation, of the same.

25 The casing consists of flat side pieces, A, that are connected by the cross-bars A' and A'', the latter being round in cross-section, forming a pivot on which the hook-bar B is hinged, the end of the latter being bent around
30 the bar A'', as shown in Fig. 2. The locking device consists of the tilting block C, that is pivoted on the trunnions c, that enter holes a of the casing. The block C has a recess in which the coil-spring c' is located, with the
35 free end of the spring, when the device is open, extending above the casing, as shown in Fig. 2. A thumb-piece, C', is concaved to fit the point and under side of the hook b, along under
40 and, being broader than the hook, the protruding edges of the thumb-piece are conveniently grasped with the thumb and finger and drawn downward in unlocking the device. In closing the lever B the point of the hook b engages
45 the incline C' about the same time that the lag b' of the bar B engages the free end of the spring. The spring is therefore compressed and the incline is forced back by its engagement with the hook, and when the point of
50 the hook is in position below the shoulder c'

the recoil of the spring swings the block C and carries the shoulder c' over the point of the hook b and locks it. By drawing down on the thumb-piece C' the device is unlocked, and the recoil of the spring throws the bar B 55 upward.

D is a lever that is fulcrumed on the trunnions d, the latter engaging one set at a time of the notches a' of the casing. When the device is in the open position, (shown in Fig. 2,) 60 the lever D may be moved to bring the trunnions d in any desired pair of notches, according to the length desired for the fastener. The upper surface of the lever D is grooved to fit the rib b'. The short arm d' is engaged by the 65 rib b' in closing the bar B, by means of which the hook D', when the device is closed, is brought and held in the position shown in Fig. 1.

The lever D is provided with the hook D' 70 and the loop d''. The hook D' is for holding the eye G of the pole-strap G'. When the cross-bar g of the eye G is placed in the hook and the device closed, the flanges g' come so close to the under side of the casing that the 75 eye G cannot be unhooked. The eye G and hook D' take the place of the ordinary kidney-link in attaching the pole-strap. The loop d'' is for attaching a martingale-strap.

When the device is opened, the end hooks, 80 b and D', that engage the hame eyes, are some distance farther apart than when the device is closed. The hooks, therefore, when the device is opened, can be readily attached to the hame eyes, and in closing the fastener the 85 hames are drawn together and made to fit the collar snugly.

What I claim is—

1. In a hame-fastener, the combination, with the casing, hook-bar B, hinged thereto, and suitable locking devices, the parts being arranged 90 substantially as indicated, of the hook-lever D, provided with the hook D' and loop d'', substantially as set forth.

2. In a hame-fastener, the combination, with 95 the casing A, provided with the notches a', the hook-bar B, hinged at a point between its ends to the casing, and suitable locking devices, of the lever D, adjustably fulcrumed in the said notches of the casing, and provided 100

with a depending hook and loop and eye for
attaching the pole-strap and engaging the de-
pending hook, the parts being arranged, sub-
stantially as described, so that in the closed
5 position of the fastener the pole-strap eye by
its close proximity to the casing is prevented
from unhooking, substantially as set forth.

In testimony whereof I sign this specifica-
tion, in the presence of two witnesses, this 3d
day of July, 1885.

DAVID G. MILLER.

Witnesses:

G. W. SHUMWAY,
N. S. AMSTUTZ.